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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re PATENT application of:)
Murat BELGE et al.)
Serial No. 09/925,509) Art Unit: 2634
Filed: August 10, 2001) Attn: Application Branch
For: **SYSTEMS AND METHODS FOR CHARACTERIZING**)
TRANSMISSION LINES USING BROADBAND)
IN A MULTI-CARRIER DSL ENVIRONMENT)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, DC 20231

May 22, 2002

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§ 1.97 and 1.98. Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within three (3) months of the filing of this application or entry into the national stage of this application, or before the first Office Action on the merits, whichever is later, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

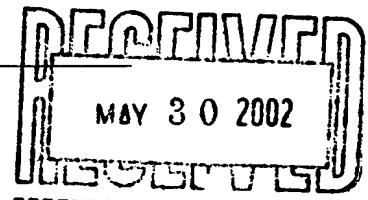
It is requested that the accompanying information disclosure statement be considered and made of record in the above-identified application. To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that the Examiner return an initialed copy of this form to the undersigned.

The Commissioner is hereby authorized to charge any fees connected with this filing which may be required now, or credit any overpayment to Deposit Account No. 19-2380 (081513-71).

Respectfully submitted,

By:

Jason H. Vick
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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Sheet	1	of	1	Application Number	09/925,509
				Filing Date	August 10, 2001
				First Named Inventor	Murat Belge et al.
				Group Art Unit	2634
				Examiner Name	Not yet assigned
				Attorney Docket Number	081513-71

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U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,128,619		Bjork et al.	07/07/1992	
		5,864,602		Needle	01/26/1999	

FOREIGN PATENT DOCUMENTS							
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴ (if known)				
		WO 00/64130	A2	Rudinski et al.	10/26/2000		
		WO 99/26375	A2	Hakanson	05/27/1999		
		WO 97/01900	A1	Pfieffer	01/16/1997		
		GB 2 303 032	A	Chun	02/05/1997		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS							
Examiner Initials ¹	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					T ²
		Boets P. et al.: "The Modeling Aspect of Transmission Line Networks" Proceedings Of The Instrumentation And Measurement Technology Conference, US, New York, IEEE, 12 May 1992, pages 137-141, XP000343913 ISBN: 0-7803-0640-6.					
		Lewis L. et al.: "Extending Trouble Ticket Systems To Fault Diagnostics" IEEE Network, November 1993, pages 44-51, XP 000575228					
		Related U.S. Patent Application Serial No. 09/755,173.					
		Related U.S. Patent Application Serial No. 09/755,172.					

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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